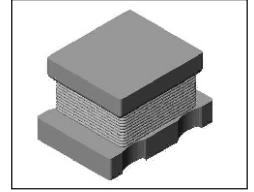


SMT Power Inductor

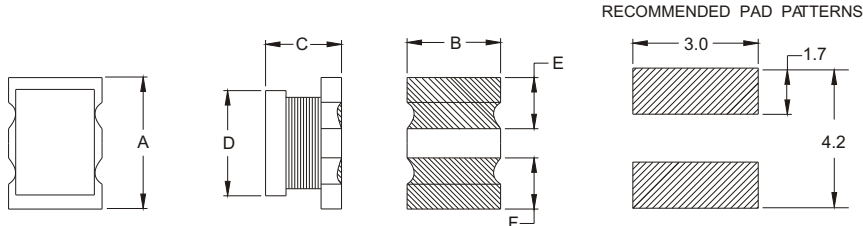
SIA3223 Type

Features

- RoHS compliant.
- Small size (3.2mm*2.5mm), low profile (2.3mm max. height) SMD type.
- Unshielded.
- Self-leads, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



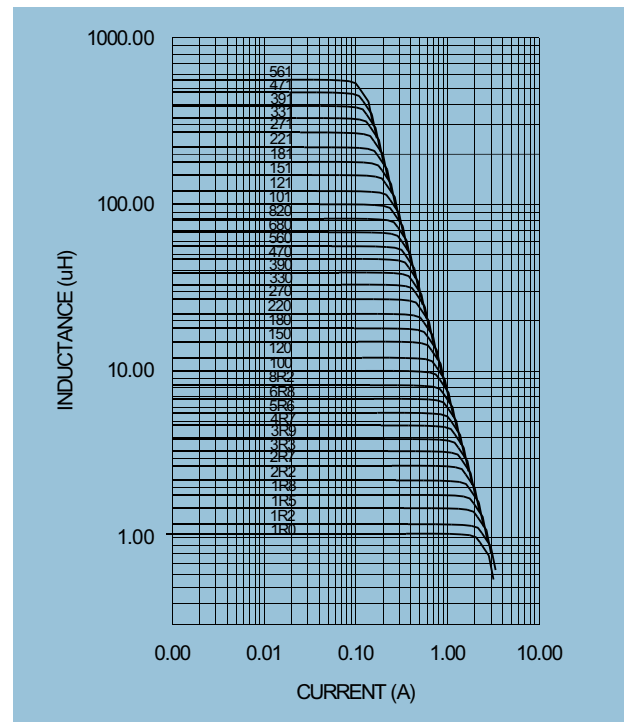
Mechanical Dimension:



UNIT:mm/inch
 A = $3.2 \pm 0.3 / 0.126 \pm 0.012$
 B = $2.5 \pm 0.2 / 0.098 \pm 0.008$
 C = $2.3 / 0.091$ Max.
 D = $2.5 \pm 0.2 / 0.098 \pm 0.008$
 E = $0.9 / 0.035$ Min.
 F = $0.9 / 0.035$ Min.

Electrical Characteristics: 25°C, 1.0~390uH 1MHz, 0.1V. 470~560uH 1KHz, 1V.

PART NO.	L ¹ (uH)	DCR (Ω) MAX	I _{rated} ² (A dc)
SIA3223-1R0	1.0	0.078	1.000
SIA3223-1R2	1.2	0.100	0.920
SIA3223-1R5	1.5	0.110	0.880
SIA3223-1R8	1.8	0.118	0.840
SIA3223-2R2	2.2	0.126	0.790
SIA3223-2R7	2.7	0.145	0.750
SIA3223-3R3	3.3	0.160	0.710
SIA3223-3R9	3.9	0.180	0.680
SIA3223-4R7	4.7	0.195	0.650
SIA3223-5R6	5.6	0.250	0.590
SIA3223-6R8	6.8	0.300	0.540
SIA3223-8R2	8.2	0.350	0.490
SIA3223-100	10.0	0.390	0.450
SIA3223-120	12.0	0.500	0.400
SIA3223-150	15.0	0.630	0.350
SIA3223-180	18.0	0.820	0.300
SIA3223-220	22.0	0.923	0.250
SIA3223-270	27.0	1.100	0.230
SIA3223-330	33.0	1.300	0.210
SIA3223-390	39.0	1.500	0.190
SIA3223-470	47.0	1.690	0.170
SIA3223-560	56.0	2.400	0.150
SIA3223-680	68.0	3.100	0.130
SIA3223-820	82.0	3.800	0.115
SIA3223-101	100.0	4.550	0.100
SIA3223-121	120.0	6.100	0.092
SIA3223-151	150.0	7.700	0.084
SIA3223-181	180.0	9.300	0.077
SIA3223-221	220.0	10.920	0.070
SIA3223-271	270.0	12.000	0.065
SIA3223-331	330.0	13.000	0.060
SIA3223-391	390.0	22.100	0.060
SIA3223-471	470.0	24.700	0.060
SIA3223-561	560.0	28.600	0.060



1. Tolerance of inductance :

M : $\pm 20\%$ for 1.0~8.2uH, K : $\pm 10\%$ for 10~560uH.

2. I_{rated} is the DC current which cause the inductance drop less than 10% of its nominal inductance without current and the surface temperature of the part increase less than 45°C.

3. Operating temperature : -20°C to 105°C (including self-temperature rise).



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